

Preliminary Amendment
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IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously Presented) A method of motion-compensated predictive image encoding, comprising the steps of:

estimating (ME) first motion vectors (MVC, MV1, MVr, MVa, MVb) for first objects (16*16);

filtering (MVPF) every occurrence of said first motion vectors (MVC, MV1, MVr, MVa, MVb) to obtain second motion vectors (MV1, MV2, MV3, MV4) for second objects (8*8), said second objects (8*8) being smaller than said first objects (16*16);

generating (3) prediction errors in dependence on said second motion vectors (MV1, MV2, MV3, MV4) only; and

combining (VLC) said first motion vectors (MVC, MV1, MVr, MVa, MVb) and said prediction errors.

2. (Previously Presented) A method as claimed in claim 1, wherein said first objects (16*16) are macro-blocks, said second objects (8*8) are blocks, and said filtering step (MVPF) comprises the steps of:

providing x and y motion vector components of a given macro-block (MVC) and of macro-blocks (MV1, MVr, MVa, MVb)

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adjacent to said given macro-block (MVC); and

supplying for each block (MV1) of a number of blocks (MV1-MV4) corresponding to said given macro-block (MVC), x and y motion vector components respectively selected from said x and y motion vector components of said given macro-block (MVC) and from the x and y motion vector components of two blocks (MV1, MVA) adjacent to said block (MV1).

3. (Previously Presented) A device for motion-compensated predictive image encoding, comprising:

means for estimating (ME) first motion vectors (MVC, MV1, MVR, MVA, MVB) for first objects (16*16);

means for filtering (MVPF) every occurrence of said first motion vectors (MVC, MV1, MVR, MVA, MVB) to obtain second motion vectors (MV1, MV2, MV3, MV4) for second objects (8*8), said second objects (8*8) being smaller than said first objects (16*16);

means for generating (3) prediction errors in dependence on said second motion vectors (MV1, MV2, MV3, MV4) only; and

means for combining (VLC) said first motion vectors (MVC, MV1, MVR, MVA, MVB) and said prediction errors.

4. (Previously Presented) A method of motion-compensated predictive decoding, comprising the steps of:

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generating (VLC^{-1}) first motion vectors (MV_c , MV_l , MV_r , MV_a , MV_b) and prediction errors from an input bit-stream, said first motion vectors (MV_c , MV_l , MV_r , MV_a , MV_b) relating to first objects (16×16) and said prediction errors related to second objects (8×8) only;

filtering (MVPF) every occurrence of said first motion vectors (MV_c , MV_l , MV_r , MV_a , MV_b) to obtain second motion vectors (MV_1 , MV_2 , MV_3 , MV_4) for said second objects (8×8), said second objects (8×8) being smaller than said first objects (16×16); and

generating (15, MC) an output signal in dependence on said prediction errors and said second motion vectors (MV_1 , MV_2 , MV_3 , MV_4).

5. (Previously Presented) A method as claimed in claim 4, wherein said first objects (16×16) are macro-blocks, said second objects (8×8) are blocks, and said filtering step (MVPF) comprises the steps of:

providing x and y motion vector components of a given macro-block (MV_c) and of macro-blocks (MV_l , MV_r , MV_a , MV_b) adjacent to said given macro-block (MV_c); and

supplying for each block (MV_1) of a number of blocks (MV_1 - MV_4) corresponding to said given macro-block (MV_c), x and y motion vector components respectively selected from said x

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and y motion vector components of said given macro-block (MVC)
and from the x and y motion vector components of two blocks
(MV1, MVA) adjacent to said block (MV1).

6. (Previously Presented) A device for motion-compensated
predictive decoding, comprising:

means for generating (VLC^{-1}) first motion vectors
(MVC, MV1, MVR, MVA, MVb) and prediction errors from an input
bit-stream, said first motion vectors (MVC, MV1, MVR, MVA, MVb)
relating to first objects (16*16) and said prediction errors
related to second objects (8*8) only;

means for filtering (MVPF) every occurrence of said
first motion vectors (MVC, MV1, MVR, MVA, MVb) to obtain second
motion vectors (MV1, MV2, MV3, MV4) for said second objects
(8*8), said second objects (8*8) being smaller than said first
objects (16*16); and

means for generating (15, MC) an output signal in
dependence on said prediction errors and said second motion
vectors (MV1, MV2, MV3, MV4).

7. (Previously Presented) A multi-media apparatus, comprising:

means (T) for receiving a motion-compensated
predictively encoded image signal; and

a motion-compensated predictive decoding device as
claimed in claim 6 for generating a decoded image signal.

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8. (Previously Presented) An image signal display apparatus, comprising:

means (T) for receiving a motion-compensated predictively encoded image signal;

a motion-compensated predictive decoding device as claimed in claim 6 for generating a decoded image signal; and

means (D) for displaying said decoded image signal.

9. (Currently Amended)) A method for generating a motion-compensated predictively encoded image signal, comprising:

estimating first motion vectors (MVC, MVl, MVr, MVa, MVb) relating to first objects (16*16); obtaining second motion vectors (MV1, MV2, MV3, MV4) for second objects (8*8) from said first motion vectors (MVC, MVl, MVr, MVa, MVb and generating prediction errors relating to every occurrence of second objects (8*8), said second objects (8*8) being smaller than said first objects (16*16), wherein said prediction errors depend on ~~motion vectors for said second objects (8*8)~~ said second motion vectors (MV1, MV2, MV3, MV4) only.